



Cookbook

What to do

You will create a digital cookbook that works as a standalone application on a desktop computer. The application should of course be able to store and show recipes that the user wants to save or cook, but in addition to that, the application should also be for several users and it should be possible to “star” your favourite recipes.

The application should start by showing a short little animation and then let the user log in. When logged in, the user should be able to search for a specific recipe, a specific ingredient (or set of ingredients), browse the recipes or add a new recipe. It should be easy to see the recipes that are the user’s favourites.

A recipe should contain a name, a short description, the ingredients as well as more detailed description of how to prepare the dish, presented in sequence. The recipe should be shown in a rich text format, with bold and larger type size for the name, a description in italics and so on. Also notice that the amount of ingredients should be adjustable to the number of persons who are going to eat, that is, it should be possible to set it to “for 2, 4, 6 or 8 persons” (possibly more, but only even numbers is sufficient). In addition, each recipe should have a number of tags that will help the user to find it. There should be a number of predefined tags (vegetarian, vegan, lactose free, gluten free, starter, main course, dessert and sweets) but it should also be possible for the user to define their own tags.

When searching for a recipe, the user can use the tags described above, but also searching for specific parts of the recipe (like “chicken” or “cabbage”). The results should contain the names of the dishes, but also be able to show the short description either by hovering or by clicking on a recipe. It should of course be possible to go to the recipe and see its full description. Once at the recipe, the user should be able to add the dish to the favourites and/or to a week’s list (see below). A user should also be able to either edit the recipe, for example if something is wrong, or to *add a comment* to it. The comment could be something like “works well for guests” or “takes a long time to do” and similar. Simple comments to remember things about a specific recipe.

A feature of the program is to be able to define and to show a list of dishes for a week. The user searches (or browses) for recipes that can be added to a specific week (an ambitious user might want to plan for several weeks). On



the main screen it should therefore be possible to quickly see the week's meals and also links to the recipes themselves. To be even more of help, the program should be able to create a shopping list for a future week. This shopping list should contain a compiled list of what needs to be purchased, that is, if butter is needed in two recipes then the total amount of butter should be listed just once. This list should be possible to edit to remove things that is already in the kitchen, like for example salt which will probably not be needed to be purchased every time. The list should be presented in a way that it can be printed nicely, possibly as a pdf but that is not necessary.

As the application is for several users, it should be clearly shown on the main screen who is logged in. It should also be possible to send recipes to other users (on the same computer). Sending is done from a specific recipe and should contain a short message (like "You should try this out!") and when a user logs in, a list of messages from other users should be shown. The user can then choose to add a recipe that they have received to his/her own list of favourites. Notice that the total selection of recipes should be shared, if one user adds a recipe, then all users should be able to see them.

To handle users, there should be an admin account that is able to add and remove users from the application. The user name of this account should be "admin" and there should only be one admin account in the system.

The program should also have a *help system*. Somewhere it should be possible to reach a help menu where there is both a tutorial for the application as well as a more in-depth help with details on the different parts. This help system should also be searchable, the user should be able to search for "adding a recipe" and see the full instructions for doing just that.

How to do it

Use JavaFX as the main framework and connect it to a MySQL database in the background. There is a gradle project available on Moodle that you should start from. All team members set up MySQL on their respective computers with the same login credentials so that everyone can run the application. It is a good idea to make a dump of the data used during development so that everyone has the same data – store the dump on GitLab.

Use realistic data! You should not use only "test data" for your recipes. It is okay to do it initially, but at the weekly meetings *you have to use realistic data*. If everyone helps out it should not be too difficult to add a few dishes every now and then.



What to hand in

You will store everything on GitLab and when you are done with the project, you simply do a release and we will have a look at it. In addition to that you will make a short presentation of your software.

User stories

The following user stories are from the description above and *must* be implemented (that is, they are prioritised). You are allowed to add to these, but the list below should be the user stories that you implement first. The user stories are numbered, but you do not (should not) implement them in the order shown, just reference them by the number they have.

1. As a user I want to be able to start the application and get an animation to welcome me
2. As a user I want to be able to log in to the application so that it is personalised for me
3. As a user I want to see my favourite recipes for quick access
4. As a user I want to be able to see the list of weekly dinner lists
5. As a user I should be able to select and display the dinner list for a week
6. As a user I should be able to search for a recipe by name to see it
7. As a user I should be able to search for a recipe by one or more ingredients to see it
8. As a user I should be able to search for a recipe by one or more tags to see it
9. As a user I want to be able to browse all recipes to select which I want to see
10. As a user I want see more the short description of a dish from a search by hovering or clicking on it to know if I want to see the whole recipe
11. As a user I want to create a new recipe so that I can see it later



12. As a user I want to be able to add a name, short description, ingredients and detailed description to a recipe
13. As a user I want to see the selected recipe with formatting (bold and larger size for name, italics for short description, lists for ingredients and detailed description) for easy viewing
14. As a user I should be able to add comments to a recipe for everyone to see to highlight something important with it
15. As a user I must be able to edit and remove comments I make on recipes if I make a mistake
16. As a user I should be able to adjust the number of persons a recipe is for by even numbers so that I get the correct amount of ingredients
17. As a user I want to be able to add one or more tags to a recipe so that it is easier to find later
18. As a user I want to be able to select from a number of predefined tags (vegetarian, vegan, lactose free, gluten free, starter, main course, dessert and sweets)
19. As a user I should be able to add my own tags to a dish for making it easy to find later
20. As a user I should be able to “star” a recipe as one of my favourites
21. As a user I must be able to “unstar” a recipe to remove it from my list of favourites
22. As a user I want to be able to create weekly dinner lists for several weeks so that I can display them later
23. As a user I want to add dishes to created weekly dinner lists (one, two or more dishes per day)
24. As a user I want to be able to generate a shopping list with what I need to buy for a week
25. As a user I want to be able to modify the shopping list so that it does not contain things I already have at home



26. As a user I want to be able to send a recipe to another user so that he/she can cook it
27. As a user I want to add a message to a recipe that I send to another user to inform why I did it
28. As a user I want access to a help system with a tutorial of how the program works so that I can understand how to use it
29. As a user I want to be able to search the help system for keywords to better understand a feature
30. As an admin I want to be able to add a new user with user name, display name and a password
31. As an admin I want to be able to modify an existing user if something is wrong
32. As an admin I want to be able to delete an existing user if the user no longer should be able to use the system

Special user story

As this is a learning experience we have a special user story that you can, and probably will, reuse. Adjust it to suite the situation. When you use it, you should show that you use your new knowledge in the coming sprint.

1. As a developer I need to study about X